

IN THE ABSTRACT

Please delete the current Abstract in its entirety and substitute therefor the enclosed
New Abstract.

NEW ABSTRACT

A method and apparatus for synchronizing timing of Access Points (APs) and/or Synchronization Units (SUs) includes (a) arranging a cable having at least four pairs of twisted wires connected between two or more fixed APs and/or SUs in a network; (b) assigning a first pair of the twisted wires to carry a positive D.C. voltage to at least one AP or SU; (c) assigning a second pair of the twisted wires to carry a negative D.C. voltage to at least one AP or SU; (d) providing to the first and second pairs of rails a series of synchronization pulses generated from a synchronization source and capacitively-coupled to the first and second pairs of twisted wires so as to supply a composite signal; and (e) reconstructing the generated synchronization pulses by detecting pulses on the positive and negative D.C. voltages at a receiving end by at least one AP or SU.